

**WEST**[Help](#)[Logout](#)[Main Menu](#) | [Search Form](#) | [Result Set](#) | [Show S Numbers](#) | [Edit S Numbers](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [RWMC](#)**Document Number 1**

Entry 1 of 2

File: DWPI

Nov 12, 1998

DERWENT-ACC-NO: 1995-303019

DERWENT-WEEK: 199849

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TITLE: Instrument for producing cavities in corneal skin - has drive piece for hollow tube having spacer, near tapered part for restricting penetration, which is fine adjustable and formed of cladding tube

INVENTOR: SCHRAGE, N

**PRIORITY-DATA:**

1994DE-4405848

February 23, 1994

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 4405848 C2	November 12, 1998	N/A	000	A61F009/013
DE 4405848 A1	August 31, 1995	N/A	009	A61F009/013

INT-CL (IPC): A61B 17/36; A61F 9/013

ABSTRACTED-PUB-NO: DE 4405848A

**BASIC-ABSTRACT:**

The instrument has a hollow tube (3) which tapers down to one end and has a drive piece (2). A spacer piece near the tapered part restricts the penetration path of the hollow tube into the corneal skin to a maximum depth of 0.6 millimetres. The spacer piece is in the form of a static cladding tube (4).

The space between the corneal skin and the spacer piece can be altered by a fine adjustment, especially micrometer screw. The diameter of the circular hollow tube's point at the end operating upon the corneal skin amounts to 10 to 700, preferably 160 micrometers. The drive piece is in the form of a rapid rotating turbine detachably joined to the hollow tube.

USE/ADVANTAGE - The economically produced instrument is for treating defective sight caused by refraction.

[Main Menu](#) | [Search Form](#) | [Result Set](#) | [Show S Numbers](#) | [Edit S Numbers](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [RWMC](#)[Help](#)[Logout](#)

DERWENT-ACC-NO: 1998-425787  
DERWENT-WEEK: 199836  
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TITLE: Layer-by-layer plastic surgery of cornea - performing incision of surface layers of cornea at prescribed depth and diameter of transplant exceeds that of operational base

INVENTOR: GIMRANOV, R M

PATENT-ASSIGNEE: UFA EYE DISEASE RES INST[UFEYR]

PRIORITY-DATA: 1994RU-0044741 (December 19, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	
PAGES	MAIN-IPC		
RU 2102050 C1	January 20, 1998	N/A	004
A61F 009/013			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
RU 2102050C1	N/A	1994RU-0044741
December 19, 1994		

INT-CL\_(IPC): A61F009/013

ABSTRACTED-PUB-NO: RU 2102050C

BASIC-ABSTRACT: The method involves incision of an affected area of a cornea with its subsequent inter-lamellar separation and implantation of a transplant. The incision of a surface layers of the cornea is performed at a depth of 0.1-0.15mm of its thickness and the diameter of the transplant exceeds the diameter of an operational base by 1.5-1.9mm.

Collection of a transplant from a donor eye is performed by a trepan. The transplant is then put onto the operational base. Protruding edges of the transplant are inserted into

inter-lamellar cavity. During use of layer-like transplant up to 5.0mm it is

possible to make less than 4 knot-type stitches. With the diameter of the transplant larger than 5.0mm 3 or 4 knot stitches shall be applied.

USE - For performing plastic surgery of cornea.

ADVANTAGE - Reduced trauma, improved functional performance and reduced treatment interval.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

LAYER LAYER PLASTIC SURGICAL CORNEA PERFORMANCE INCISION SURFACE  
LAYER CORNEA  
PRESCRIBED DEPTH DIAMETER TRANSPLANT OPERATE BASE

DERWENT-CLASS: P32

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1998-332360